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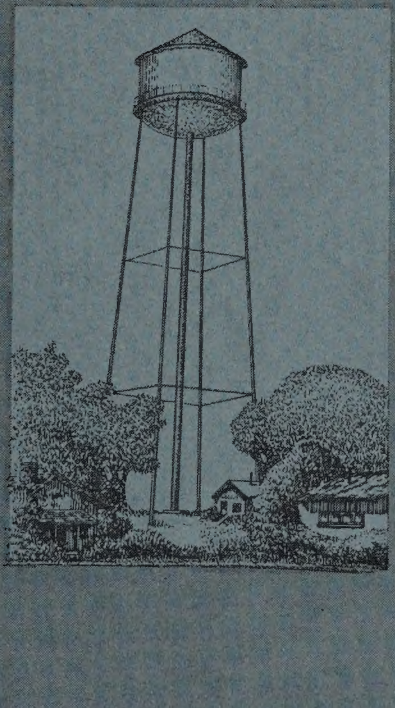
Groundwater Quality Protection Program

LAKE ZURICH
FACILITY NUMBER 0970850
WELL SITE SURVEY
REPORT

Division of Public Water Supplies



IEPA/PWS/93-078

GROUNDWATER QUALITY PROTECTION PROGRAM:

LAKE ZURICH
FACILITY NUMBER 0970850
WELL SITE SURVEY
REPORT

Prepared by:

Division of Public Water Supplies

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INTRODUCTION

This report has been prepared by the Agency pursuant to Section 17.1 of the Illinois Environmental Protection Act. The report summarizes information about your facility, and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around your well(s) to help increase your awareness of potential hazards to groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

The Lake Zurich has three four public water supply wells. The facility produces 1,650,000 gallons per day on average to an estimated population of 14,947. See Table I for a description of each well. The wells utilize a deep bedrock aquifer which is overlain by relatively impermeable silty or clayey till. Permeability is a measure of the ability of a soil or sediment to transmit fluids. A detailed description and geologic profile is found in the Facility Wells Report (Appendix F).

TABLE I

	Min. Set-Back (ft.)	Max. Set-Back (ft.)	Status	Cap. (gpm) (MGD)	Spec. Cap. (gpm/ft)	Treatment	Aquifer	Well Depth (ft)	Well Log Avail
Well No. 7 (20259)	200		A	1099 1.584	N/A	Cl	Deep Bedrock	1333	Yes
Well No. 8 (20260)	200		A	1099 1.584	N/A	Cl	Deep Bedrock	1373	Yes
Well No. 9 (00691)	200		A	N/A	N/A		Deep Bedrock	1365	Yes
Well No. 10 (00636)	200		A	799 1.152	N/A	Cl	Deep Bedrock	1365	Yes

A = Active, I = Inactive, SB = Standby

GROUNDWATER SAMPLING AND MONITORING HISTORY

The public water supply wells, Nos. 7 and 8, at Lake Zurich were sampled as part of the Statewide Groundwater Monitoring Network on January 16, 1987. The well samples were analyzed for volatile organic and aromatic chemicals (VOC/VOA) and inorgnic chemicals (IOC). The VOC/VOA analyses performed detected no quantifiable levels of organic chemicals in either well. The IOC analyses performed found the water from both wells to meet all general guidelines. Wells #9 and #10 were not sampled as part of the Statewide Groundwater Monitoring Network. Well #10 was sampled for inorganic chemicals (IOC) to comply with the Safe Drinking Water Act. In the future the wells will be sampled for VOC/VOA as part of a new amendment to the Act.

WELL SITE SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets, (Appendix B), that relate information about potential sources, routes, and possible problem sites to your water supply wells. The location of potential sources, routes, possible problem sites, water wells minimum setback zones and the 1,500 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,500 foot radius of the wellhead. A unit is defined as "any device, mechanism, equipment, or area (exclusive of land utilized only for agricultural production)". The Agency 5-digit well number is associated with unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

SURVEY RESULTS AND FINDINGS

The well site survey of Lake Zurich was conducted on July 19, 1992 by Laurie Moyer, Environmental Protection Specialist from the Agency's Rockford Regional Office. The following describes the results and findings for Lake Zurich.

Lake Zurich Well No. 7 (IEPA #20259) - The survey area is urban consisting entirely of moderate density residential housing. The well is located off Old Mill Grove Road. There are no visible potential sources, routes, or possible problem sites located within the minimum setback zone (200 feet). One potential secondary source is located outside the minimum setback zone, but within the survey area (1500 feet). This site is the Village of Lake Zurich - Sewage Treatment Plant (Map code 1) located 800 feet South of the well.

Lake Zurich Well No. 8 (IEPA #20260) - The survey area is urban consisting mostly of commercial/industrial business and partly of open spaces. The well is located off Ensoll Road on the northeast side of Lake Zurich. There are no visible potential sources, routes, or possible problem sites located within the minimum setback zone (200 feet). Twenty-two possible problem sies are located outside the minimum setback zone, but within the survey area (1500 feet). These sites are K & R Welding Products, Inc. (Map code 1) located 1350 feet northeast of the well, Quarter Master International, Inc. (Map code 2) located 1250 feet northeast of the well, International Fire Equipment Corp. (Map code 3) located 1050 feet northeast of the well, JPD Group, Inc. (Map code 4) located 850 feet northeast of the well, Goudie Tool and Engineering (Map code 5) located 750 feet northeast of the well, Arrow Pneumatics, Inc. (Map code 6) located 1050 feet northwest of the well, Colonial Hospital Supply Co. (Map code 7) located 1175 feet northwest of the well, Epic Circuits, Inc. (Map code 8) located 875 feet northwest of the well, Schaff Piano String and Supply Co. (Map code 9) located 1000 feet northwest of the well, Cable Television (Map code 10) located 600 feet northwest of the well, Exion Chemical America's Film Division (Map code 11) located 1200 feet southwest of the well, unknown company (Map code 12) located 400 feet northwest of the well, Echo, Inc. (Map code 13) located 225 southwest of the well, Lake Zurich Glass and Mirror, Inc. (Map code 14) located 1425 feet southwest of the well, Zurich International Auto Collision, Inc. (Map code 15) located 225 feet northwest of the well, Catalytic Products - International, Inc. (Map code 16) located 225 feet north of the well, Premium Marketing (Map Code 17) located 425 feet northeast of the well, Wolf Machine & Tool Co. (Map code 18) located 650 feet northeast of the well, Energy scout, Inc. (Map code 19) located 800 feet southeast of the well, Koldon Moving and Storage - North American Vanlines (Map code 20, located 700 feet southeast of the well, Lakecook News (Map code 21) located 600 feet east of the well, and Bish Creative Display, Inc. (Map Code 22) located 600 feet east of the well.

Lake Zurich Well No. 9 (IEPA #00691) - The survey area is urban consisting mostly of moderate density residential housing and partly of commercial businesses. The well is located at Route 12 and Deerpath Road. There one visible potential source, route, or possible problem site located within the minimum setback zone (200 feet). This site is Jaeger Premium Batteries (Map code 7) located 200 feet southeast of the well. Two possible problem sites are located outside the minimum setback zone but within the survey area of (1500 feet). These sites are Deerpath Court (Map Code 5) located 900 feet northeast of the well and Alpine Animal Hospital (Map Code 6) located 700 feet northwest of the well.

Lake Zurich Well No. 10 (IEPA #00636) - The survey area is urban consisting mostly of moderate density residential housing and partly of commercial businesses and partly a lake. The well is located off Whitney Road, east of Route 12 and north of Route 22. There are no visible potential sources, routes, or possible problem sites located within the minimum setback zone (200 feet). Six possible problem sites are located outside the minimum setback zone but within the survey area of (1500 feet). These sites are Lake Zurich Car Wash (Map code 1) located 1000 feet northwest of the well, Richard Butt - Phillips 66 (Map code 2) located 900 feet northwest of the well, A-1 Cleaners (Map code 3) located 800 feet northwest of the well, K-Mart Corp. (Map code 5) located 750 feet southwest of the well, and Amoco (Map code 6) located 1475 feet southeast of the well.

SUMMARY

The well site survey conducted located no potential sources, routes, or possible problem sites located within the minimum setback zone or within the survey area of each well. The sampling and monitoring to date has detected no contamination in the groundwater utilized by the facility.

The Illinois Environmental Protection Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection up to 1,000 feet. The responsibility for the control would then be assumed by local officials through adoption of a maximum setback zone ordinance. Grundy County officials should be contacted in order to make application.

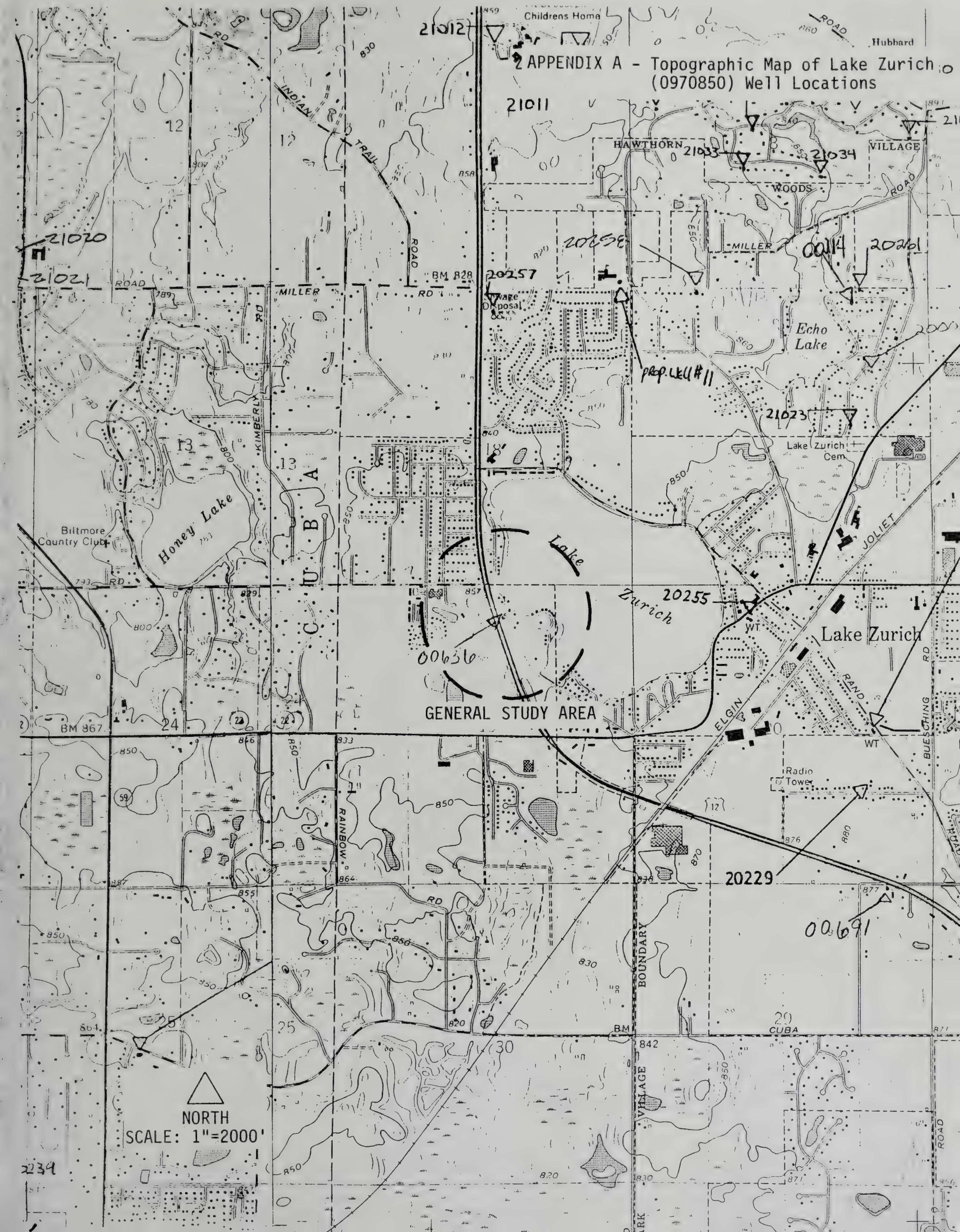
Maximum setback zones prohibit the siting of new potential primary sources of groundwater contamination. A maximum setback up to 1000 feet could expand the regulatory coverage of certainexisting and new activities. These controls could be implemented uponthe adoption of proposed regulations by the Illinois Pollution Control Board.

RECOMMENDATIONS

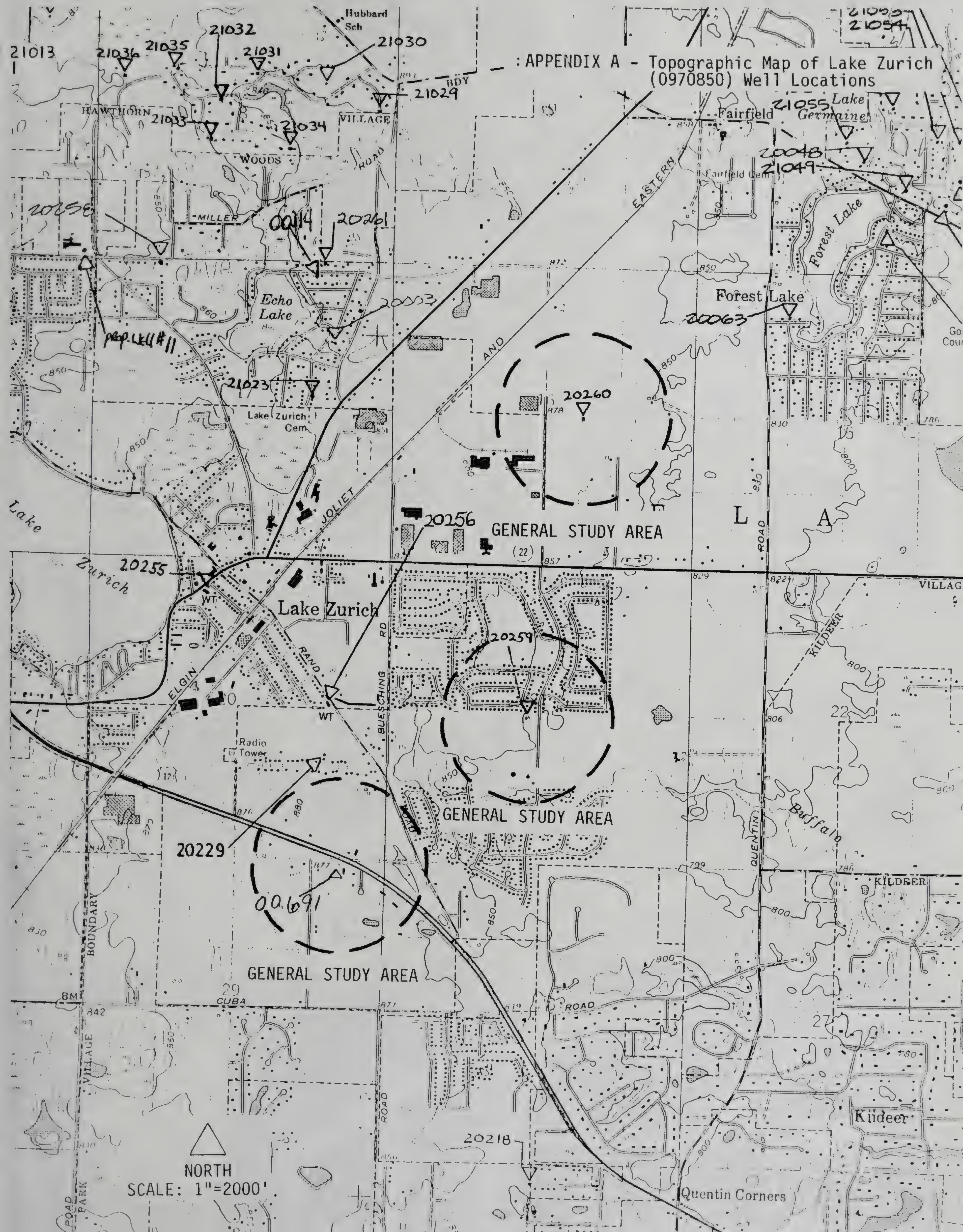
The Agency strongly urges Lake Zurich to consider establishing a maximum setback zone for its wells. The Agency has prepared a "Maximum Setback Zone Workbook" which provides detailed case studies of how to establish maximum setback zones. In addition, technical assistance is available from the Agency and the Illinois State Water Survey.

TECHNICAL APPENDICES

APPENDIX A - Topographic Map of Lake Zurich (0970850) Well Locations

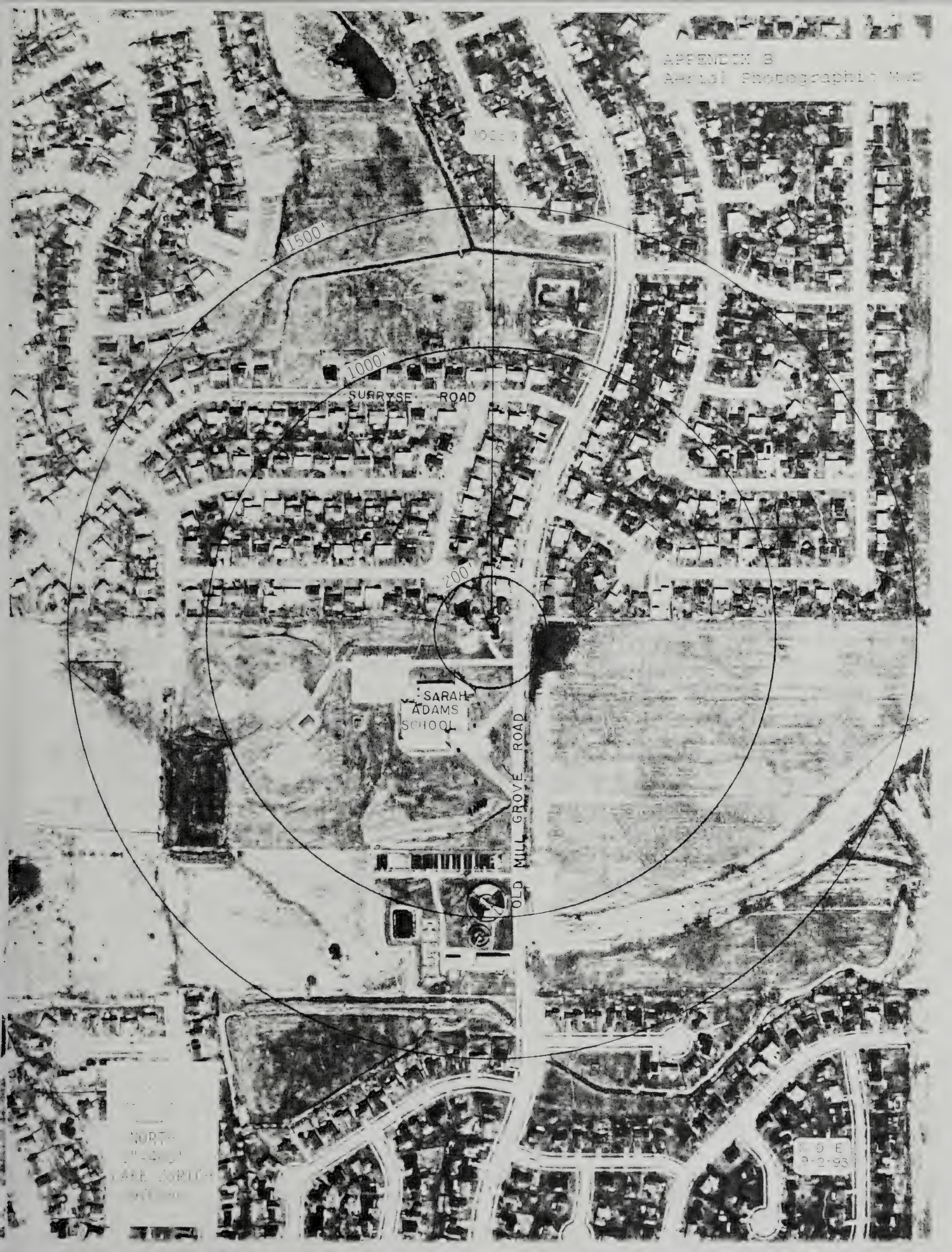


APPENDIX A - Topographic Map of Lake Zurich (0970850) Well Locations



APPENDIX B

Aerial Photographic Map



Appendix B1 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
Lake Zurich Well No. 7 (IEPA #20259)

SURVEYOR: Moyer
SURVEY DATE: 07-09-92
ADDRESS: Lake Zurich
70 E Main Street
Lake Zurich, IL 60047

AGENCY WELL NO.: 20259
WELL NAME & DESC: Well No. 7
TREATMENT APPLICATION POINT: 01
FACILITY NO. & NAME: 0970850 - Lake Zurich
FACILITY PHONE CONTACT: 708/438-5141

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 43N, 10E, 21, 5E
DISTANCE FROM CORNER: 2100S, 2550E
QUAD SHEET CODE & NAME: 28A - Lake Zurich
MIN. SETBACK: 200 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E - Uniform, relatively impermeable silty or clayey till at least 50 ft. thick; no evidence of interbedded sand and gravel.
AGE OF WELL (Date of Well Construction): 1971
WELL DEPTH: 1333 feet
CASING DEPTH: 525 feet
AQUIFER CODE: 6080 - Deep Bedrock
MULTIPLE AQUIFER (Y, N): Yes
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting entirely of moderate density residential housing.

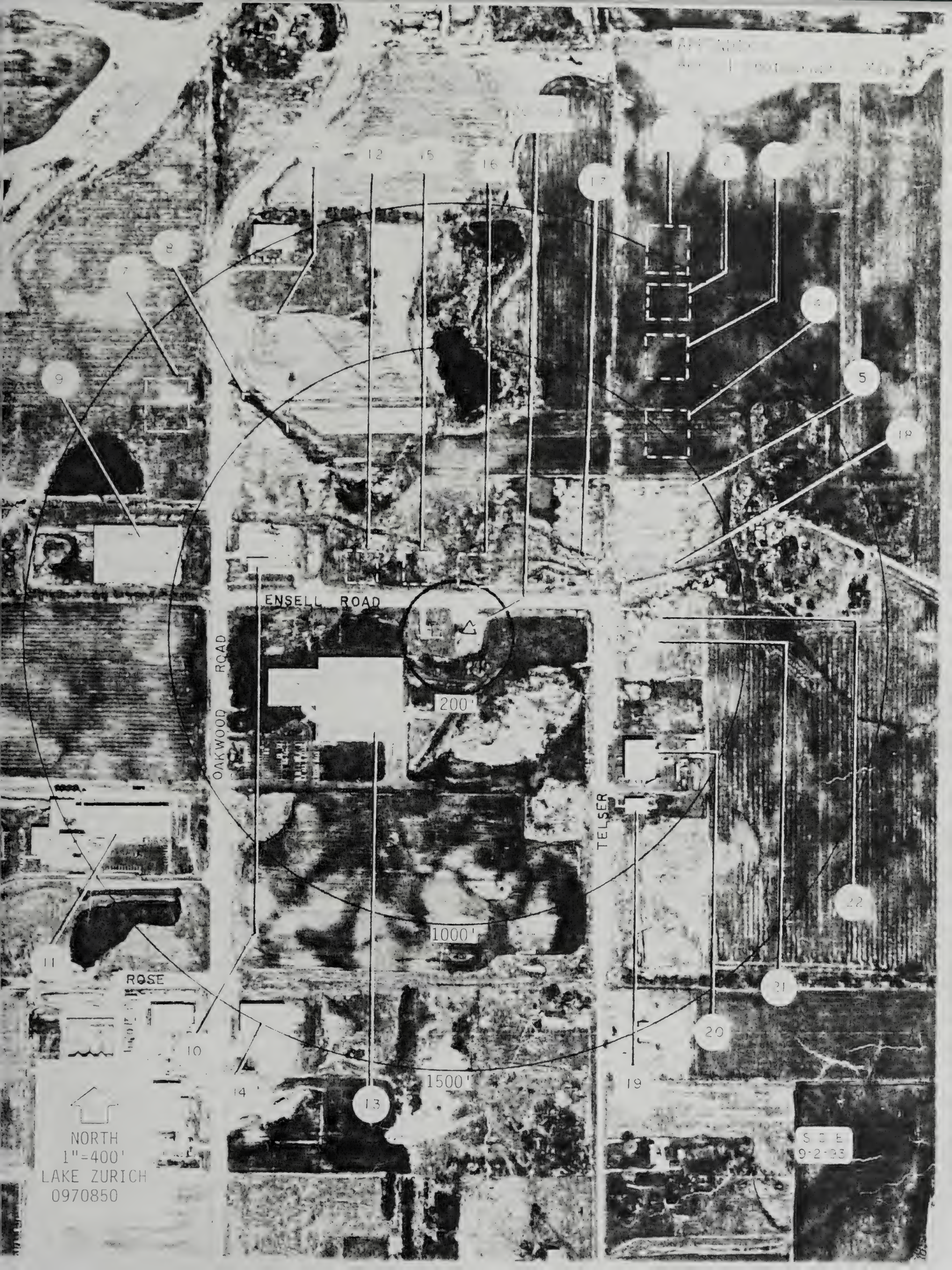
APPENDIX B1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No 7 (IEPA #20259)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20259-01
NAME & ADDRESS OF UNIT OWNER: Village of Lake Zurich - Sewage Treatment Plant, Old Mill Grove Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Sewage Treatment Plant
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 800 Feet south of the well

APPENDIX C


12
15
16
17
2
8
7
4
9
5
18
ENSELL ROAD
OAKWOOD ROAD
200'
TELSER
22
1000'
11
ROSE
21
10
20
14
1500'
19
13
NORTH
1"=400'
LAKE ZURICH
0970850
S C E
9-2-93

Appendix C1 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
Lake Zurich Well No. 8 (IEPA #20260)

SURVEYOR: Moyer
SURVEY DATE: 07-09-92
ADDRESS: Lake Zurich
70 E. Main Street
Lake Zurich, IL 60047

AGENCY WELL NO.: 20260
WELL NAME & DESC: Well No. 8
TREATMENT APPLICATION POINT: 02
FACILITY NO. & NAME: 0970850 - Lake Zurich
FACILITY PHONE CONTACT: 708/438-5141

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 43N, 10E, 16, 4D
DISTANCE FROM CORNER: 2500N, 2000W
QUAD SHEET CODE & NAME: 28A - Lake Zurich
MIN. SETBACK: 200 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E - Uniform, relatively impermeable silty or clayey till at least 50 ft. thick, no evidence of interbedded sand and gravel.
AGE OF WELL (Date of Well Construction): 1979
WELL DEPTH: 1373 feet
CASING DEPTH:
AQUIFER CODE: 6387 - Deep Bedrock
MULTIPLE AQUIFER (Y, N): Yes
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting mostly of commercial/industrial businesses and partly of spaces.

APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No. 8 (IEPA #20260

*CLASSF KEY

MIN. ZONE
PP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY
RI = ROUTE
CC = CERTIFIED
XI = UNKNOWN
CU = CLEANUP

OUTSIDE MIN. ZONE
OP = POTENTIAL PRIMARY
OS = POTENTIAL SECONDARY
OR = ROUTE
CC = CERTIFIED
OX = UNKNOWN
CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20260-01
NAME & ADDRESS OF UNIT OWNER: K & R Welding Products, Inc., 520 Telser Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Welding Company
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1350 feet northeast of the well

WELL NO. - MAP CODE - CLASSF*: 20260-02
NAME & ADDRESS OF UNIT OWNER: Quarter Master Industries, Inc., 510 Telser Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Manufacturer of gears, clutches, bell housings and hydraulic release bearings.
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1250 feet northeast of the well

WELL NO. - MAP CODE - CLASSF*: 20260-03
NAME & ADDRESS OF UNIT OWNER: International Fire Equipment Corp., 500 Telser Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Sale of fire equipment
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1050 feet northeast of the well

WELL NO. - MAP CODE - CLASSF*: 20260-04
NAME & ADDRESS OF UNIT OWNER: JPD Group, Inc. - Touchtone Pavers, Inc., 490 Telser Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Manufacturer of sand blasting and glass etching equipment
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 850 feet northeast of the well

APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No. 8 (IEPA #20260

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*CLASSF KEY

MIN. ZONE
PP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY
RI = ROUTE
CC = CERTIFIED
XI = UNKNOWN
CU = CLEANUP

OUTSIDE MIN. ZONE
OP = POTENTIAL PRIMARY
OS = POTENTIAL SECONDARY
OR = ROUTE
CC = CERTIFIED
OX = UNKNOWN
CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20260-05
NAME & ADDRESS OF UNIT OWNER: Goudie Tool and Engineering
DESCRIPTION AND COMMENTS: Precision grinding, tools and dies
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 750 feet northeast of the well

WELL NO. - MAP CODE - CLASSF*: 20260-06
NAME & ADDRESS OF UNIT OWNER: Arrow Pneumatics, Inc., 500 Oakwood Drive, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Manufacturer of safety retainers & chisels, filters, pressure regulators and lubricators.
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1050 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20260-07
NAME & ADDRESS OF UNIT OWNER: Colonial Hospital Supply Co. - Customer Service Hospital Division, 555 Oakwood Drive, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Sale of hospital supplies
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1175 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20260-08
NAME & ADDRESS OF UNIT OWNER: Epic Circuits, Inc., 470 Oakwood Drive, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Manufacturer of circuits, generate 433.1 tons of RCRA waste in 1990. IL ID No. 0970855023, USEPA IL NO. ILD984782151
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 875 feet northwest of the well

APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No. 8 (IEPA #20260

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
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RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20260-09
NAME & ADDRESS OF UNIT OWNER: Schaff Piano String and Supply Co., 451 N. Oakwood Drive, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Manufacturer of musical instruments
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1000 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20260-10
NAME & ADDRESS OF UNIT OWNER: Cable Television, Oakwood Drive, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Cable Company
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 600 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20260-11-OS
NAME & ADDRESS OF UNIT OWNER: Exxon Chemical America's Film Division, 351 N. Oakwood Drive, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Manufacturer of polyetheylene film, 1 registered underground storage tank on site - OSFM #2 - 013352
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1200 feet southwest of the well

WELL NO. - MAP CODE - CLASSF*: 20260-12
NAME & ADDRESS OF UNIT OWNER: Unknown, 950 Ensell Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 400 feet northwest of the well

APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No. 8 (IEPA #20260

*CLASSF KEY

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PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20260-13-OS
NAME & ADDRESS OF UNIT OWNER: Echo, Inc., 400 Oakwood Drive, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Manufacturer of outdoor power equipment, 1 registered underground storage tank on site - OSFM #2 - 026113
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 225 feet southwest of the well

WELL NO. - MAP CODE - CLASSF*: 20260-14
NAME & ADDRESS OF UNIT OWNER: Lake Zurich Glass and Mirror, Inc, 785 Oakwood Drive, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Glass and Mirror Sales
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1425 feet southwest of the well

WELL NO. - MAP CODE - CLASSF*: 20260-15
NAME & ADDRESS OF UNIT OWNER: Zurich International, 960 Ensell Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Auto Repair
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 225 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20260-16
NAME & ADDRESS OF UNIT OWNER: Catalytic Products - International, Inc., 980 Ensell Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Manufacturer of pollution control system filters and catalysts, generate 27.527 Tons RCRA waste for 1990. IL ID No. 0970855025, USEPA IL No. ILD0510656467
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 225 feet north of the well

APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No. 8 (IEPA #20260

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20260-17
NAME & ADDRESS OF UNIT OWNER: Premium Marketing, 1130 Ensell Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Marketing Company
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 425 feet northeast of the well

WELL NO. - MAP CODE - CLASSF*: 20260-18
NAME & ADDRESS OF UNIT OWNER: Wolf Machine & Tool Co., Telser Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Machine & Tool Shop
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 650 feet northeast of the well

WELL NO. - MAP CODE - CLASSF*: 20260-19
NAME & ADDRESS OF UNIT OWNER: Energy Scout, Inc., 350 Telser Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 800 feet southeast of the well

WELL NO. - MAP CODE - CLASSF*: 20260-20
NAME & ADDRESS OF UNIT OWNER: Koldon Moving and Storage - North American Vanlines, 410 Telser Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Moving Company
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 700 feet southeast of the well

APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No. 8 (IEPA #20260

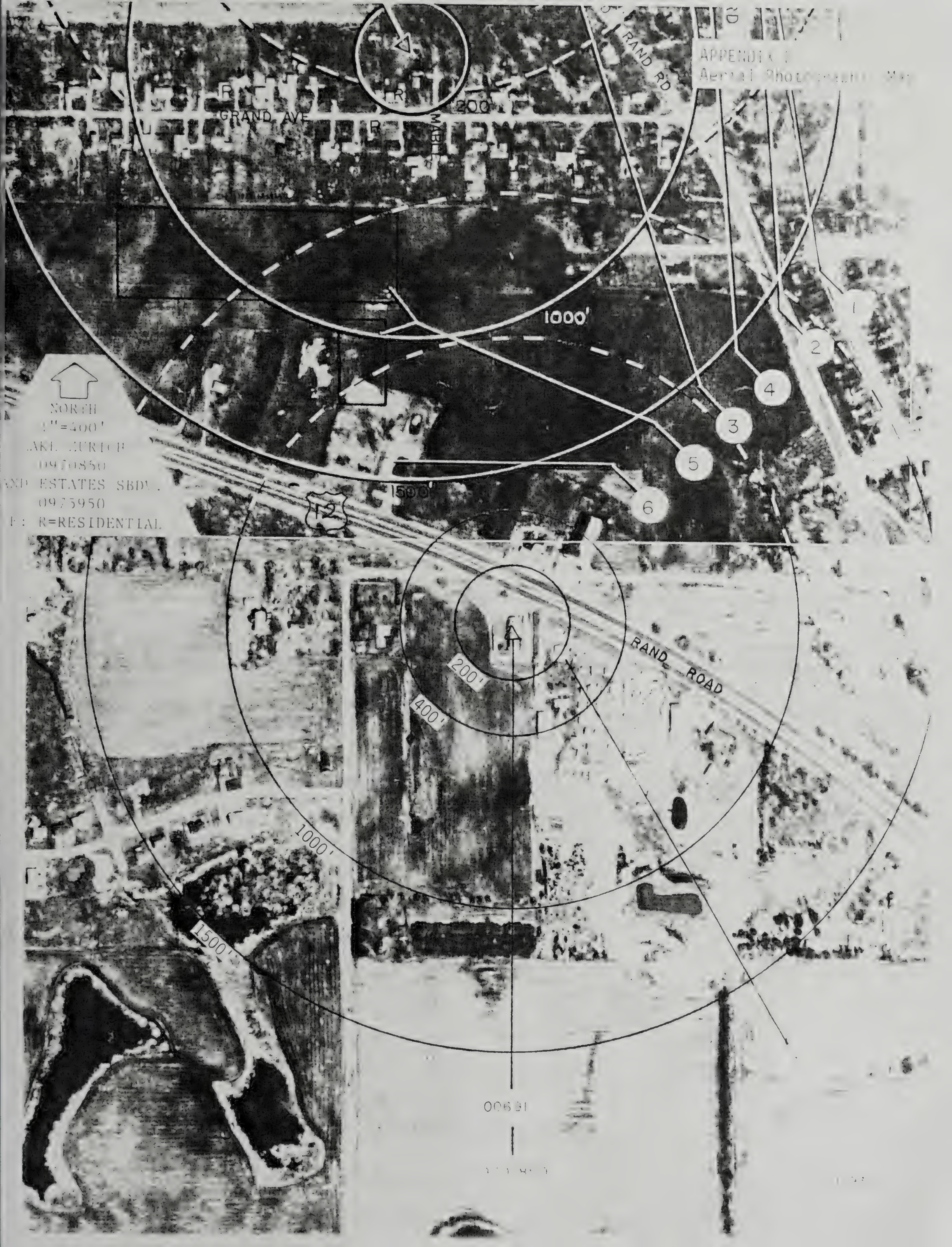
*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20260-21
NAME & ADDRESS OF UNIT OWNER: Lakecook News, 449 Telser Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Newspaper
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 600 feet east of the well

WELL NO. - MAP CODE - CLASSF*: 20260-22
NAME & ADDRESS OF UNIT OWNER: Bish Creative Display, Inc. 440 Telser Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 600 feet east of the well

APPENDIX I
Aerial Photograph Map



Appendix D1 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
Lake Zurich Well No. 9 (IEPA #00691)

SURVEYOR: Moyer
SURVEY DATE: 07-09-92
ADDRESS: Lake Zurich
70 E. Main Street
Lake Zurich, IL 60047

AGENCY WELL NO.: 00691
WELL NAME & DESC: Well No. 9, Route 12 and Deerpath Road
TREATMENT APPLICATION POINT:
FACILITY NO. & NAME: 0970850 - Lake Zurich
FACILITY PHONE CONTACT: 708/438-5141

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 43N, 10E, 29, 2H
DISTANCE FROM CORNER: 0050S, 0875W
QUAD SHEET CODE & NAME: 28A - Lake Zurich
MIN. SETBACK: 200 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E - Uniform, relatively impermeable silty or clayey till at least 50 ft. thick; no evidence of interbedded sand and gravel
AGE OF WELL (Date of Well Construction): 1987
WELL DEPTH: 1365 feet
CASING DEPTH: 520
AQUIFER CODE: 6366 - Deep Bedrock
MULTIPLE AQUIFER (Y, N): Yes
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting mostly of moderate density residential housing and partly of commercial businesses.

APPENDIX D1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No. 9 (IEPA #00691)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 00691-03
NAME & ADDRESS OF UNIT OWNER: United Savings of America, 400 S. Old Rand Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Bank and Offices
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 3275 feet south of the well

WELL NO. - MAP CODE - CLASSF*: 00691-04
NAME & ADDRESS OF UNIT OWNER: Ahlgrim and Sons Funeral Home, 415 S. Buesching Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Funeral Home
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 3050 feet southwest of the well

WELL NO. - MAP CODE - CLASSF*: 00691-05
NAME & ADDRESS OF UNIT OWNER: Deerpath Court, U.S. Rt. 12, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Two bldg. shopping center with Wal-Mart, Payless Shoe Source, and approx. 25 empty stores for lease
PRE OR POST (Y, N): No
DISTANCE AND DIRECTION: 900 feet northwest of the well

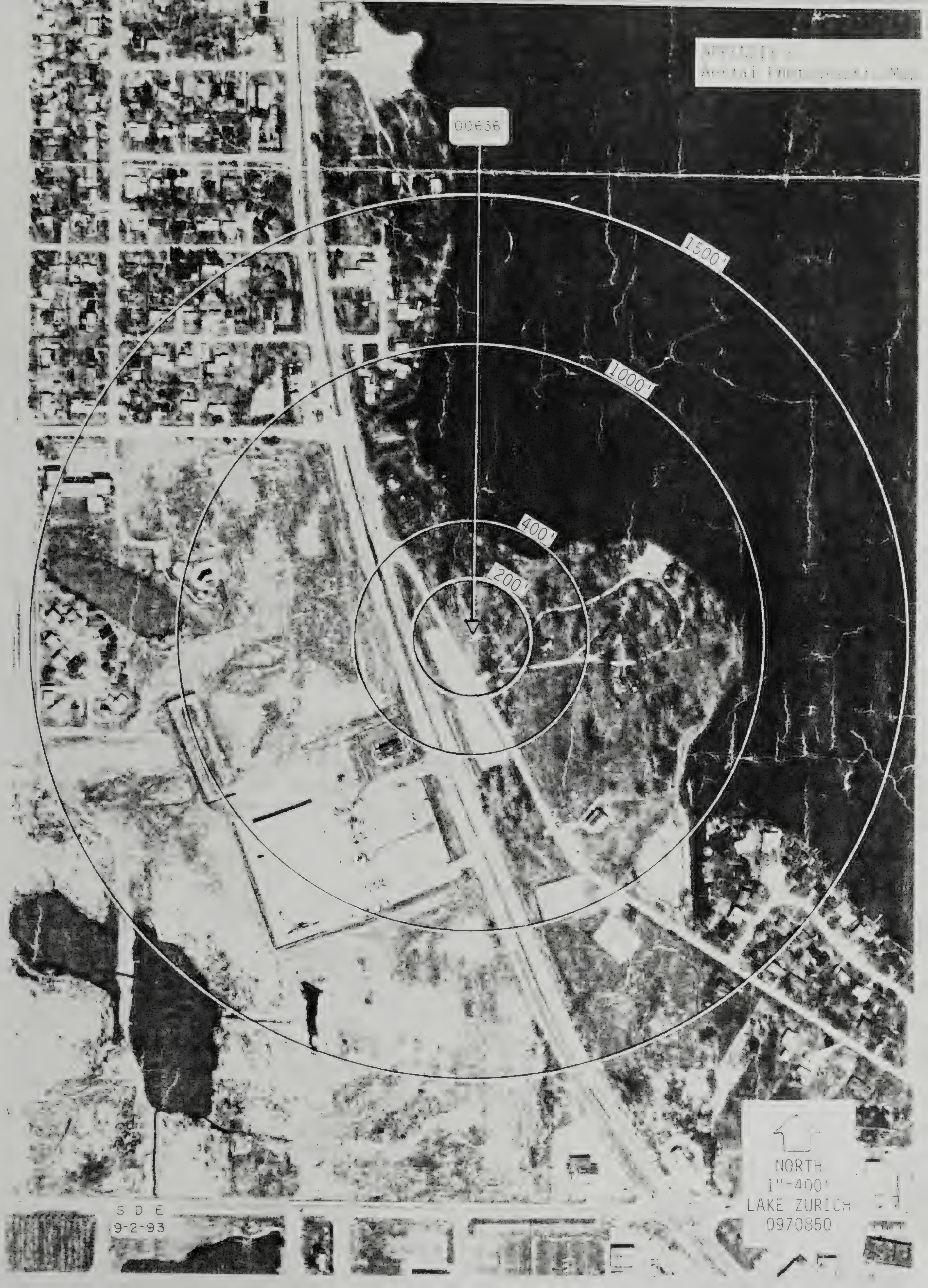
WELL NO. - MAP CODE - CLASSF*: 00691-06
NAME & ADDRESS OF UNIT OWNER: Alpine Animal Hospital, 880 S. Rand Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Animal Hospital
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 700 feet northwest of the well

APPENDIX D1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No. 9 (IEPA #00691)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 00691-07
NAME & ADDRESS OF UNIT OWNER: Jaeger Premium Batteries, 909 S. Rand Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Battery Sales
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 200 feet southeast of the well


00636
1500'
1000'
400'
200'
NORTH
1"=400'
LAKE ZURICH
0970850
S D E
9-2-93

Appendix E1 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
Lake Zurich Well No. 10 (IEPA #00636)

SURVEYOR:	Moyer
SURVEY DATE:	10-13-92
ADDRESS:	Lake Zurich 70 E. Main Street Lake Zurich, IL 60047

AGENCY WELL NO.: 00636
WELL NAME & DESC: Well No. 10
TREATMENT APPLICATION POINT: 05
FACILITY NO. & NAME: 0970850 - Lake Zurich
FACILITY PHONE CONTACT: 708/438-5141

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 43N, 10E, 19, 4H
DISTANCE FROM CORNER: 0520S, 2280W
QUAD SHEET CODE & NAME: 28A - Lake Zurich
MIN. SETBACK: 200 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E - Uniform, relatively impermeable silty or clayey till at least 50 ft. thick; no evidence of interbedded sand and gravel
AGE OF WELL (Date of Well Construction): 1989
WELL DEPTH: 1340 feet
CASING DEPTH:
AQUIFER CODE: 6393 - Deep Bedrock
MULTIPLE AQUIFER (Y, N): Yes
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting partly of moderate density residential housing and partly of commercial businesses and partly a lake.

APPENDIX E1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No. 10 (IEPA #00636)

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*CLASSF KEY

MIN. ZONE
PP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY
RI = ROUTE
CC = CERTIFIED
XI = UNKNOWN
CU = CLEANUP

OUTSIDE MIN. ZONE
OP = POTENTIAL PRIMARY
OS = POTENTIAL SECONDARY
OR = ROUTE
CC = CERTIFIED
OX = UNKNOWN
CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 00636-01
NAME & ADDRESS OF UNIT OWNER: Lake Zurich Car Wash and Detailed Center, 7 N. Rand Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Car Wash
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1000 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 00636-02-OS
NAME & ADDRESS OF UNIT OWNER: Richard Butt - Phillips 66, 1 N. Rand Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Service Station, 3 registered underground storage tanks on site - OSFM #2-010685
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 900 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 00636-03
NAME & ADDRESS OF UNIT OWNER: A-1 Cleaners, 73 S. Rand Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Dry Cleaners
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 800 feet northwest of the well

APPENDIX E1 - INVENTORY & SYNOPSIS OF UNIT(S) Lake Zurich Well No. 10 (IEPA #00636)

*CLASSF KEY

MIN. ZONE
PP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY
RI = ROUTE
CC = CERTIFIED
XI = UNKNOWN
CU = CLEANUP

OUTSIDE MIN. ZONE
OP = POTENTIAL PRIMARY
OS = POTENTIAL SECONDARY
OR = ROUTE
CC = CERTIFIED
OX = UNKNOWN
CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 00636-04
NAME & ADDRESS OF UNIT OWNER: Franks Nursery, 195 S. Rand Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Nursery
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 650 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 00636-05-OS
NAME & ADDRESS OF UNIT OWNER: K-Mart Corp., 225 S. Rand Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Discount Store, 1 registered underground storage tank on site - OSFM #2-019338
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 750 feet southwest of the well

WELL NO. - MAP CODE - CLASSF*: 00636-06-OS
NAME & ADDRESS OF UNIT OWNER: Amoco, 550 S. Rand Road, Lake Zurich, IL 60047
DESCRIPTION AND COMMENTS: Service Station, 3 registered underground storage tanks on site - OSFM #2-027979
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1475 feet southeast of the well

APPENDIX F

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    FACILITY: 097385.   LAKE ZURICH

    ----------------------- OWNER -------------------------      ------------------ OFFICIAL CUSTODIAN ------------------

    JAMES W KAY                                                  ROBERT DUPREY

    VILLAGE HALL                                                 SUPERINTENDENT - VILLAGE HALL

    70 E MAIN ST                                                 70 E MAIN ST

    LAKE ZURICH          IL  60047                               LAKE ZURICH         IL  60047


    WELL: 00636  E OF RT 12 & N OF RT 22 IN LAKE ZURICH       STATUS: ACTIVE                DEPTH(FT): 1365
          LATITUDE: N42 11 30.0          LONGITUDE: W088 06 16.0               TWP: 43N  RNG: 10E  SEC: 19  PLOT: 4H

          SUSCEPTIBILITY - LAND BURIAL: E    SUSCEPTIBILITY - LAND SPREADING:      --- MINIMUM SETBACK(FT): 1400 ---
          AQUIFERS: GALESVILLE SANDSTONE

    WELL: 20255  WELL  2 NEAR VILLAGE HALL                    STATUS: INACTIVE*             DEPTH(FT):  421
          LATITUDE: N42 11 39.0          LONGITUDE: W088 05 46.0               TWP: 43N  RNG: 10E  SEC: 20  PLOT: 6G

          SUSCEPTIBILITY - LAND BURIAL: E    SUSCEPTIBILITY - LAND SPREADING: D2   --- MINIMUM SETBACK(FT): 200* ---
          AQUIFERS: DEVONIAN                                       SILURIAN DOLOMITE
                    MAQUOKETA SHALE

    WELL: 20256  WELL  3 NWCOR RAND ROAD AND CEDAR STREET     STATUS: INACTIVE*             DEPTH(FT):  443
          LATITUDE: N42 11 20.0          LONGITUDE: W088 05 12.0               TWP: 43N  RNG: 10E  SEC: 20  PLOT: 2E

          SUSCEPTIBILITY - LAND BURIAL: E    SUSCEPTIBILITY - LAND SPREADING: D2   --- MINIMUM SETBACK(FT): 200* ---
          AQUIFERS: DEVONIAN                                       SILURIAN DOLOMITE
                    MAQUOKETA GROUP

    WELL: 20257  IN PW BLDG ON RT 12 S OF MILLER RD           STATUS: INACTIVE*             DEPTH(FT): 1345
          LATITUDE: N42 12 40.0          LONGITUDE: W088 06 23.0               TWP: 43N  RNG: 10E  SEC: 18  PLOT: 4H

          SUSCEPTIBILITY - LAND BURIAL: E    SUSCEPTIBILITY - LAND SPREADING: D2   --- MINIMUM SETBACK(FT): 200* ---
          AQUIFERS: CINCINNATION SERIES                            CHAMPLAINIAN SERIES
                    ORDOVICIAN-CAMBRIAN SYSTEM                     CAMBRIAN SYSTEM

    WELL: 20258  WELL  6 S SIDE MILLER RD 0.5 MI E HYW 12     STATUS: INACTIVE*             DEPTH(FT):  415
          LATITUDE: N42 12 40.0          LONGITUDE: W088 05 52.0               TWP: 43N  RNG: 10E  SEC: 17  PLOT: 7H

          SUSCEPTIBILITY - LAND BURIAL: E    SUSCEPTIBILITY - LAND SPREADING: D2   --- MINIMUM SETBACK(FT): 200* ---
          AQUIFERS: DEVONIAN                                       SILURIAN DOLOMITE
    FACILITY:  0970850   LAKE ZURICH                                                                          (CONTINUED)

    WELL: 20259  WELL 7 445 OLD MILL GROVE ROAD                STATUS: ACTIVE                   DEPTH(FT): 1333
          LATITUDE: N42 11 19.0           LONGITUDE: W088 04 24.0                TWP: 43N  RNG: 10E   SEC: 21  PLOT: 5E

          SUSCEPTIBILITY - LAND BURIAL: E    SUSCEPTIBILITY - LAND SPREADING: D2   --- MINIMUM SETBACK(FT): 0200 ---
          AQUIFERS: CINCINNATION SERIES                             CHAMPLAINIAN SERIES
                    ORDOVICIAN-CAMBRIAN SYSTEM                      CAMBRIAN SYSTEM

    WELL: 20260  WELL  8 ENSOLL ROAD NE LAKE ZURICH            STATUS: ACTIVE                   DEPTH(FT): 1373
          LATITUDE: N42 12 14.0           LONGITUDE: W088 04 10.0                TWP: 43N  RNG: 10E   SEC: 16  PLOT: 4D

          SUSCEPTIBILITY - LAND BURIAL: E    SUSCEPTIBILITY - LAND SPREADING: D2   --- MINIMUM SETBACK(FT): 0200 ---
          AQUIFERS: ANCELL GROUP                                    GALENA GROUP
                    PLATTEVILLE GROUP                               ORDOVICIAN-CAMBRIAN SYSTEM
                    CANADIAN SERIES                                 GUNTER SANDSTONE OF PRAIRIE DU CHIEN GRO
                    NEW RICHMOND SNDSTN OF PRAIRIE DU CHIEN         ONEOTA DOLOMITE OF PRAIRIE DU CHIEN GROU
                    SHAKOPEE DOLOMITE OFPRAIRIE DU CHIEN GRO        CAMBRIAN SYSTEM
                     EMINENCE-POTOSI                                IRONTON-GALESVILLE

    SUSCEPTIBILITY CODES
          LAND BURIAL: E  = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 50 FT THICK; NO EVIDENCE OF
                            INTERBEDDED SAND AND GRAVEL.

       LAND SPREADING: D2 = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 20 FT THICK; NO EVIDENCE OF
                            INTERBEDDED SAND AND GRAVEL.

    *NOTE:  INACTIVE WELLS SHOULD EITHER BE RETROFITTED FOR USE OR PROPERLY ABANDONED.  INACTIVE WELLS WHICH ARE IMPROPERLY
            ABANDONED ARE CONSIDERED POTENTIAL ROUTES ACCORDING TO P.A. 85-0863.
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APPENDIX G

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REPORT:  PWGWP048                      ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
MODULE:  PWGWM026                        DIVISION OF PUBLIC WATER SUPPLIES                                 PAGE:          3
                                           SELECTED SAMPLE EXPANDED REPORT                                  DATE:  06/02/92

  FACILITY:  0970850 LAKE ZURICH                                       STATUS: A    PUBLIC: Y    COMM: Y    TYPE WATER: G
       TAP:                                                            STATUS:
  RAW SRCE:                                                            STATUS:

      SAMPLE NO: 811245000    LOCATION: LAKE ZURICH WELL 10                        COLL DATE: 09/04/91     DELIVERED BY: MAIL
      SMPL TYPE: RAW         COLLECTOR: KEVIN                                      LAB RCVD: 09/06/91       RECEIVED BY: MAD
      SMPL PURP: 5-SPEC/OTHR  COMMENTS:                                           LAB COMPL: 10/21/91  LAB SUPERVISOR: RPF
      SMPL PROG: C-CHEMICAL  OBSRVATNS:                                         SMPL PERIOD: 09/91           FUND CODE: PW30

     ANALYSIS  RSLT -------STORET-------                                                       -------STANDARDS-------     TRIGGER
        ID      NO     NO     DESCRIPTION                                 UNITS     RESULT    DRINK WTR      RAW WTR       LEVEL

      100T000  001  00403  PH LABORATORY UNITS                            UNITS     7.400
      101T000  001  00095  CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C           UM/CM   523.000
      102T000  001  70300  RESIDUE,TOTAL FILTERABLE @180 C,MG/L           MG/L    314.000
      103T000  001  00410  ALKALINITY,TOTAL MG/L AS CACO3                 MG/L    280.000
      105T000  001  00900  HARDNESS,EDTA MG/L AS CACO3                    MG/L    226.000
      107T000  001  00951  FLUORIDE,TOTAL MG/L AS F                       MG/L      0.890       4.000
      108T000  001  00940  CHLORIDE,TOTAL MG/L AS CL                      MG/L      5.800
      109T000  001  00945  SULFATE,TOTAL MG/L AS SO4                      MG/L     10.000 <
      110T000  001  00630  NITRATE & NITRITE TOTAL MG/L AS N              MG/L      0.010 <    10.000
      111T000  001  00610  NITROGEN,AMMONIA TOTAL MG/L AS N               MG/L      0.330
      114T000  001  00956  SILICA,TOTAL MG/L AS SIO2                      MG/L      8.000
      116T000  001  00720  CYANIDE,TOTAL MG/L AS CN                       MG/L      0.005 <     0.200
      144T000  001  01002  ARSENIC,TOTAR RECOVERABLE UG/L AS AS           UG/L      1.000 <    50.000
      151T100  001  01051  LEAD,TOTAL RECOVERABLE UG/L AS PB              UG/L      5.000 <    50.000
      153T000  001  71900  MERCURY,TOTAL UG/L AS HG                       UG/L      0.050 <     2.000
      155T000  001  01147  SELENIUM,TOTAL RECOVERABLE UG/L ASSE           UG/L      1.000 <    10.000
      177T100  001  00916  CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP  MG/L  58.000
      177T100  002  00927  MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP MG/L  19.000
      177T100  003  00929  SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP   MG/L  23.000
      177T100  004  00937  POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP MG/L  10.000
      177T100  005  01105  ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP  UG/L  88.000
      177T100  006  01007  BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP   UG/L 752.000      1000.000
      177T100  007  01022  BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP     UG/L 182.000
      177T100  008  01012  BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP UG/L  0.500 <
      177T100  009  01027  CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB  UG/L   3.000 <    10.000
      177T100  010  01034  CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB  UG/L   5.000 <    50.000
      177T100  011  01042  COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP   UG/L   9.000      5000.000
      177T100  012  01037  COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP   UG/L   5.000 <
      177T100  013  01045  IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP     UG/L  50.000 <  1000.000
      177T100  014  01055  MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP UG/L  6.000       150.000
      177T100  015  01067  NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP   UG/L   5.000 <
      177T100  016  01077  SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP   UG/L   3.000 <    50.000
      177T100  017  01082  STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP UG/L 13400.000
      177T100  018  01087  VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP   UG/L   5.000 <
      177T100  019  01092  ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP     UG/L  50.000 <  5000.000
      177T100  020  82394  HARDNESS, CALC - MG/L                             MG/L 222.000
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 FACILITY: 0970550 LAKE ZURICH                                     STATUS: A    PUBLIC: Y    COMM: Y    TYPE WATER: G
    TAP:          01 WELL 7                                        STATUS: A
 RAW SRCE:   20259 WELL 7 445 OLD MILL GROVE ROAD                  STATUS: A

      SAMPLE NO: Z004095       LOCATION: WELL                                                   COLL DATE: 01/16/87    DELIVERED BY:
      SMPL TYPE: RAW           COLLECTOR: IEPA SMPL COLLECTOR                                   LAB RCVD: 00/00/00      RECEIVED BY:
      SMPL PURP: 5-SPEC/OTHR   COMMENTS:                                                        LAB COMPL: 00/00/00  LAB SUPERVISOR:
      SMPL PROG: I-GWM INORG OBSRVATNS:                                                       SMPL PERIOD: 01/87          FUND CODE:

     ANALYSIS  RSLT -------STORET-------                                                             -------STANDARDS-------      TRIGGER
        ID      NO     NO    DESCRIPTION                                              UNITS      RESULT    DRINK WTR       RAW WTR       LEVEL

      0000001  001  00610  NITROGEN,AMMONIA TOTAL MG/L AS N                                       0.370
      0000001  002  00630  NITRATE & NITRITE TOTAL MG/L AS N                                      0.100 <      10.000
      0000001  003  00665  PHOSPHORUS, TOTAL MG/L AS P                                            0.010 <
      0000001  004  00720  CYANIDE,TOTAL MG/L AS CN                                               0.010 <       0.200
      0000001  005  00916  CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP                      68.000
      0000001  006  00927  MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP                    20.000
      0000001  007  00929  SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP                       41.000
      0000001  008  00937  POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP                      8.200
      0000001  009  00940  CHLORIDE,TOTAL MG/L AS CL                                             16.000
      0000001  010  00945  SULFATE,TOTAL MG/L AS SO4                                             47.000
      0000001  011  00951  FLUORIDE,TOTAL MG/L AS F                                               1.070         4.000
      0000001  012  00956  SILICA,TOTAL MG/L AS SIO2                                              7.400
      0000001  013  00956  SILICA,TOTAL MG/L AS SIO2                                              7.400
      0000001  014  01002  ARSENIC,TOTAR RECOVERABLE UG/L AS AS                                   1.000 <      50.000
      0000001  015  01007  BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP                       89.000      1000.000
      0000001  016  01012  BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP                     0.500 <
      0000001  017  01022  BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP                        274.000
      0000001  018  01027  CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB                       3.000 <      10.000
      0000001  019  01034  CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB                       5.000 <      50.000
      0000001  020  01037  COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP                        5.000 <
      0000001  021  01042  COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP                        5.000 <    5000.000
      0000001  022  01045  IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP                        193.000      1000.000
      0000001  023  01051  LEAD,TOTAL RECOVERABLE UG/L AS PB                                      5.000 <      50.000
      0000001  024  01055  MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP                     6.000       150.000
      0000001  025  01067  NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP                        5.000 <
      0000001  026  01077  SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP                        3.000 <      50.000
      0000001  027  01082  STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP                  4630.000
      0000001  028  01087  VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP                        5.000 <
      0000001  029  01092  ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP                         50.000 <    5000.000
      0000001  030  01105  ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP                      50.000 <
      0000001  031  01147  SELENIUM,TOTAL RECOVERABLE UG/L ASSE                                   1.000 <      10.000
      0000001  032  32730  PHENOLS, TOTAL RECOVERABLE UG/L                                        5.000 <
      0000001  033  70300  RESIDUE,TOTAL FILTERABLE @180 C,MG/L                                 410.000
      0000001  034  71900  MERCURY,TOTAL UG/L AS HG                                               0.080         2.000
      0000001  035  00059  FLOW (PUMPING) RATE GAL/MIN                                         1200.000
      0000001  036  72004  FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN                             25.000
      0000001  037  90410                                                                       311.000

      SAMPLE NO: Z004036       LOCATION: WELL                                                   COLL DATE: 01/16/87    DELIVERED BY:
      SMPL TYPE: RAW           COLLECTOR: IEPA SMPL COLLECTOR                                   LAB RCVD: 00/00/00      RECEIVED BY:
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 FACILITY: 0970950 LAKE ZURICH                               *** CONTINUED ***

     SMPL PURP: 5-SPEC/OTHR   COMMENTS:                                                LAB COMPL: [illegible]  LAB SUPERVISOR:
     SMPL PROG: I-GWM INORG OBSRVATNS:                                               SMPL PERIOD: 01/87          FUND CODE:

    ANALYSIS  RSLT  -------STORET-------                                                   -------STANDARDS-------      TRIGGER
       ID      NO    NO     DESCRIPTION                                  UNITS     RESULT    DRINK WTR      RAW WTR       LEVEL

     0000001  001  00610  NITROGEN,AMMONIA TOTAL MG/L AS N                            0.270
     0000001  002  00630  NITRATE & NITRITE TOTAL MG/L AS N                           0.100 <     10.000
     0000001  003  00665  PHOSPHORUS, TOTAL MG/L AS P                                 0.010 <
     0000001  004  00720  CYANIDE,TOTAL MG/L AS CN                                    0.010 <      0.200
     0000001  005  00916  CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP           63.000
     0000001  006  00927  MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP         19.000
     0000001  007  00929  SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP            23.000
     0000001  008  00937  POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP           6.300
     0000001  009  00940  CHLORIDE,TOTAL MG/L AS CL                                   6.500
     0000001  010  00945  SULFATE,TOTAL MG/L AS SO4                                  29.000
     0000001  011  00951  FLUORIDE,TOTAL MG/L AS F                                    1.020        4.000
     0000001  012  00956  SILICA,TOTAL MG/L AS SI02                                   7.600
     0000001  013  00956  SILICA,TOTAL MG/L AS SI02                                   7.600
     0000001  014  01002  ARSENIC,TOTAR RECOVERABLE UG/L AS AS                        1.000 <     50.000
     0000001  015  01007  BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP           230.000     1000.000
     0000001  016  01012  BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP          0.500 <
     0000001  017  01022  BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP             195.000
     0000001  018  01027  CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB            3.000 <     10.000
     0000001  019  01034  CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB            5.000 <     50.000
     0000001  020  01037  COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP             5.000 <
     0000001  021  01042  COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP             5.000 <   5000.000
     0000001  022  01045  IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP             173.000     1000.000
     0000001  023  01051  LEAD,TOTAL RECOVERABLE UG/L AS PB                           5.000 <     50.000
     0000001  024  01055  MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP          6.000      150.000
     0000001  025  01067  NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP             5.000 <
     0000001  026  01077  SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP             3.000 <     50.000
     0000001  027  01082  STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP       4807.000
     0000001  028  01087  VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP             5.000 <
     0000001  029  01092  ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP              50.000 <   5000.000
     0000001  030  01105  ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP           50.000 <
     0000001  031  01147  SELENIUM,TOTAL RECOVERABLE UG/L ASSE                        1.000 <     10.000
     0000001  032  32730  PHENOLS, TOTAL RECOVERABLE UG/L                             5.000 <
     0000001  033  70300  RESIDUE,TOTAL FILTERABLE 0180 C,MG/L                      330.000
     0000001  034  71900  MERCURY,TOTAL UG/L AS HG                                    0.050 <      2.000
     0000001  035  00059  FLOW (PUMPING) RATE GAL/MIN                              1200.000
     0000001  036  72004  FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN                  30.000
     0000001  037  90410                                                            280.000

     SAMPLE NO: B025665       LOCATION: WELL #7                                       COLL DATE: 02/15/83    DELIVERED BY:
     SMPL TYPE: RAW          COLLECTOR: ALVIN KNIGGE                                   LAB RCVD: 04/07/83     RECEIVED BY:
     SMPL PURP: 1-ROUTINE     COMMENTS:                                                LAB COMPL:          LAB SUPERVISOR:
     SMPL PROG: I-GWM INORG OBSRVATNS:                                              SMPL PERIOD: 02/83          FUND CODE:
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                                         ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
REPORT:  PWGWP048                           DIVISION OF PUBLIC WATER SUPPLIES                                           PAGE:        11
MODULE:  PWGWM026                            SELECTED SAMPLE EXPANDED REPORT                                            DATE:  06/22/92

 FACILITY: 0970850 LAKE ZURICH                                        *** CONTINUED ***

   ANALYSIS  RSLT -------STORET-------                                                       -------STANDARDS-------    TRIGGER
      ID      NO    NO    DESCRIPTION                                   UNITS     RESULT    DRINK WTR     RAW WTR       LEVEL

                   00095  CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C                    580.000
                   00403  PH LABORATORY UNITS                                       7.700
                   00410  ALKALINITY,TOTAL MG/L AS CACO3                          280.000
                   00610  NITROGEN,AMMONIA TOTAL MG/L AS N                          0.390
                   00630  NITRATE & NITRITE TOTAL MG/L AS N                         0.100 <     10.000
                   00720  CYANIDE,TOTAL MG/L AS CN                                  0.005 <      0.200
                   00900  HARDNESS,EDTA MG/L AS CACO3                             249.000
                   00916  CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP         66.000
                   00927  MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP       20.400
                   00929  SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP          25.000
                   00937  POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP        12.000
                   00940  CHLORIDE,TOTAL MG/L AS CL                                 3.400
                   00945  SULFATE,TOTAL MG/L AS SO4                                29.000
                   00951  FLUORIDE,TOTAL MG/L AS F                                  1.020        4.000
                   00956  SILICA,TOTAL MG/L AS SI02                                 7.230
                   01002  ARSENIC,TOTAR RECOVERABLE UG/L AS AS                      1.000 <     50.000
                   01007  BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP         471.000     1000.000
                   01012  BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP        0.500 <
                   01022  BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP           220.000
                   01027  CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB          3.000 <     10.000
                   01034  CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB          5.000 <     50.000
                   01037  COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP           5.000 <
                   01042  COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP           3.000 <   5000.000
                   01045  IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP           200.000     1000.000
                   01051  LEAD,TOTAL RECOVERABLE UG/L AS PB                         5.000 <     50.000
                   01055  MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP        7.000      150.000
                   01067  NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP           3.000 <
                   01077  SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP           5.000 <     50.000
                   01082  STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP     5000.000
                   01087  VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP           4.000 <
                   01092  ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP             3.000     5000.000
                   01147  SELENIUM,TOTAL RECOVERABLE UG/L ASSE                      1.000 <     10.000
                   70300  RESIDUE,TOTAL FILTERABLE @180 C,MG/L                    357.000
                   70304  TOTAL DISSOLVED SOLIDS MG/L BY EC                       350.000
                   71900  MERCURY,TOTAL UG/L AS HG                                  0.050 <      2.000

   SAMPLE NO: Z004084      LOCATION: WELL                                  COLL DATE: 01/16/87    DELIVERED BY:
   SMPL TYPE: RAW         COLLECTOR: IEPA SMPL COLLECTOR                    LAB RCVD: 00/00/00     RECEIVED BY:
   SMPL PURP: 5-SPEC/OTHR  COMMENTS:                                       LAB COMPL: 00/00/00  LAB SUPERVISOR:
   SMPL PROG: V-VOC        OBSRVATNS:                                   SMPL PERIOD: 01/87            FUND CODE:

   ANALYSIS  RSLT -------STORET-------                                                       -------STANDARDS-------    TRIGGER
      ID      NO    NO    DESCRIPTION                                   UNITS     RESULT    DRINK WTR     RAW WTR       LEVEL

   0000001   001   32101  BROMODICHLOROMETHANE UG/L CG/MS                           1.000 <
   0000001   002   32102  CARBON TETRACHLORIDE UG/L CG/MS                           1.000 <      5.000
   0000001   003   32103  1,2-DICHLOROETHANE UG/L                                   1.000 <      5.000
 FACILITY:  0970350 LAKE ZURICH                                   ### CONTINUED ###

      0000001  004  32104  BROMOFORM UG/L GC/MS                                        1.000 <
      0000001  005  32105  DIBROMOCHLOROMETHANE UG/L GC/MS                             1.000 <
      0000001  006  32106  CHLOROFORM UG/L GC/MS                                       1.000 <
      0000001  007  34010  TOLUENE UG/L                                                1.000 <   1000.000
      0000001  008  34030  BENZENE UG/L                                                1.000 <      5.000
      0000001  009  34301  CHLOROBENZENE UG/L                                          1.000 <    100.000
      0000001  010  34371  ETHYLBENZENE UG/L                                           1.000 <    700.000
      0000001  011  34423  METHYLENE CHLORIDE UG/L                                     1.000 <      5.000
      0000001  012  34475  TETRACHLOROETHYLENE UG/L GC/MS                              1.000 <      5.000
      0000001  013  34496  1,1-DICHLOROETHANE UG/L GC/MS                               1.000 <
      0000001  014  34501  1,1-DICHLOROETHYLENE UG/L GC/MS                             1.000 <      7.000
      0000001  015  34506  1,1,1-TRICHLOROETHANE UG/L GC/MS                            1.000 <    200.000
      0000001  016  34546  TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS                       1.000 <    100.000
      0000001  017  39180  TRICHLOROETHYLENE UG/L                                      1.000 <      5.000
      0000001  018  00059  FLOW (PUMPING) RATE GAL/MIN                              1200.000
      0000001  019  72004  FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN                  25.000
      0000001  020  90410                                                            311.000

 FACILITY:  0970350 LAKE ZURICH                    STATUS: A    PUBLIC: Y    COMM: Y    TYPE WATER: G
     TAP:          02 WELL 8                       STATUS: A
 RAW SRCE:     20260 WELL  8 ENSOLL ROAD NE LAKE ZURICH   STATUS: A

     SAMPLE NO: Z004107        LOCATION: WELL                          COLL DATE: 01/16/87     DELIVERED BY:
     SMPL TYPE: RAW           COLLECTOR: IEPA SMPL COLLECTOR            LAB RCVD: 00/00/00      RECEIVED BY:
     SMPL PURP: 5-SPEC/OTHR    COMMENTS:                               LAB COMPL: 00/00/00  LAB SUPERVISOR:
     SMPL PROG: I-GWM INORG OBSRVATNS:                               SMPL PERIOD: 01/87          FUND CODE:

   ANALYSIS  RSLT -------STORET-------                                                -------STANDARDS-------      TRIGGER
      ID      NO     NO     DESCRIPTION                             UNITS      RESULT    DRINK WTR      RAW WTR      LEVEL

      0000001  001  00610  NITROGEN,AMMONIA TOTAL MG/L AS N                            0.380
      0000001  002  00630  NITRATE & NITRITE TOTAL MG/L AS N                           0.100 <     10.000
      0000001  003  00665  PHOSPHORUS, TOTAL MG/L AS P                                 0.010 <
      0000001  004  00720  CYANIDE,TOTAL MG/L AS CN                                    0.010 <      0.200
      0000001  005  00916  CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP           68.000
      0000001  006  00927  MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP         20.000
      0000001  007  00929  SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP            41.000
      0000001  008  00937  POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP           8.300
      0000001  009  00940  CHLORIDE,TOTAL MG/L AS CL                                  16.000
      0000001  010  00945  SULFATE,TOTAL MG/L AS SO4                                  47.000
      0000001  011  00951  FLUORIDE,TOTAL MG/L AS F                                    1.060        4.000
      0000001  012  00956  SILICA,TOTAL MG/L AS SI02                                   7.400
      0000001  013  00956  SILICA,TOTAL MG/L AS SI02                                   7.400
      0000001  014  01002  ARSENIC,TOTAR RECOVERABLE UG/L AS AS                        1.000 <     50.000
      0000001  015  01007  BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP            88.000     1000.000
      0000001  016  01012  BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP          0.500 <
      0000001  017  01022  BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP             270.000
      0000001  018  01027  CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB            3.000 <     10.000
      0000001  019  01034  CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB           5.000 <     50.000
      0000001  020  01037  COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP             5.000 <
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REPORT:  PWGWP048                 ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
MODULE:  PWGWM025                    DIVISION OF PUBLIC WATER SUPPLIES                                        PAGE:          13
                                     SELECTED SAMPLE EXPANDED REPORT                                          DATE:   06/22/92

  FACILITY:  1970857 LAKE ZURICH                                    *** CONTINUED ***

       0000001  021  01042  COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP             5.000 <   5000.000
       0000001  022  01045  IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP             192.000     1000.000
       0000001  023  01051  LEAD,TOTAL RECOVERABLE UG/L AS PB                           5.000 <     50.000
       0000001  024  01055  MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP          5.000      150.000
       0000001  025  01067  NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP             5.000 <
       0000001  026  01077  SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP             3.000 <     50.000
       0000001  027  01082  STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP       4604.000
       0000001  028  01087  VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP             5.000 <
       0000001  029  01092  ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP              50.000 <   5000.000
       0000001  030  01105  ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP           50.000 <
       0000001  031  01147  SELENIUM,TOTAL RECOVERABLE UG/L ASSE                        1.000 <     10.000
       0000001  032  32730  PHENOLS, TOTAL RECOVERABLE UG/L                             5.000 <
       0000001  033  70300  RESIDUE,TOTAL FILTERABLE @180 C,MG/L                      383.000
       0000001  034  71900  MERCURY,TOTAL UG/L AS HG                                    0.050 <      2.000
       0000001  035  00010  WATER TEMPERATURE DEG C                                    16.500
       0000001  036  00059  FLOW (PUMPING) RATE GAL/MIN                              1100.000
       0000001  037  00090  OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS              84.000-
       0000001  038  00095  CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C                      540.000
       0000001  039  00400  PH PH UNITS                                                 7.400
       0000001  040  72004  FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN                  90.000
       0000001  041  93410                                                            315.000

     SAMPLE NO: 6025666        LOCATION: WELL #8                                   COLL DATE: 02/15/83    DELIVERED BY:
     SMPL TYPE: RAW          COLLECTOR: ALVIN KNIGGE                                LAB RCVD: 04/07/83     RECEIVED BY:
     SMPL PURP: 1-ROUTINE     COMMENTS:                                            LAB COMPL:          LAB SUPERVISOR:
     SMPL PROG: I-GWM INORG OBSRVATNS:                                          SMPL PERIOD: 02/83           FUND CODE:

    ANALYSIS  RSLT --------STORET-------                                                  -------STANDARDS-------    TRIGGER
       ID      NO     NO    DESCRIPTION                                 UNITS      RESULT   DRINK WTR    RAW WTR      LEVEL

                    00095  CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C                     330.000
                    00403  PH LABORATORY UNITS                                        7.600
                    00410  ALKALINITY,TOTAL MG/L AS CACO3                           280.000
                    00610  NITROGEN,AMMONIA TOTAL MG/L AS N                           0.410
                    00630  NITRATE & NITRITE TOTAL MG/L AS N                          0.100 <     10.000
                    00720  CYANIDE,TOTAL MG/L AS CN                                   0.005 <      0.200
                    00900  HARDNESS,EDTA MG/L AS CACO3                              302.000
                    00916  CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP          79.000
                    00927  MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP        23.300
                    00929  SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP           59.000
                    00937  POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP         14.000
                    00940  CHLORIDE,TOTAL MG/L AS CL                                 24.000
                    00945  SULFATE,TOTAL MG/L AS SO4                                118.000
                    00951  FLUORIDE,TOTAL MG/L AS F                                   1.320        4.000
                    00956  SILICA,TOTAL MG/L AS SIO2                                  7.000
                    01002  ARSENIC,TOTAR RECOVERABLE UG/L AS AS                       1.000 <     50.000
                    01007  BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP           41.000     1000.000
                    01012  BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP         0.500 <
                    01022  BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP            410.000
                    01027  CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB           3.000 <     10.000
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 FACILITY: 0971550 LAKE ZURICH                                   *** CONTINUED ***

                        01034  CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB                5.000 <     50.000
                        01037  COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP                 5.000 <
                        01042  COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP                 4.000     5000.000
                        01045  IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP                 280.000     1000.000
                        01051  LEAD,TOTAL RECOVERABLE UG/L AS PB                               5.000       50.000
                        01055  MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP              8.000      150.000
                        01067  NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP                 3.000 <
                        01077  SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP                 5.000 <     50.000
                        01082  STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP           5310.000
                        01087  VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP                 4.000 <
                        01092  ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP                   7.000     5000.000
                        01147  SELENIUM,TOTAL RECOVERABLE UG/L ASSE                            1.000 <     10.000
                        70300  RESIDUE,TOTAL FILTERABLE 0180 C,MG/L                          510.000
                        70304  TOTAL DISSOLVED SOLIDS MG/L BY EC                             480.000
                        71900  MERCURY,TOTAL UG/L AS HG                                        0.100        2.000

      SAMPLE NO: Z004106       LOCATION: WELL                                      COLL DATE: 01/16/87     DELIVERED BY:
      SMPL TYPE: RAW           COLLECTOR: IEPA SMPL COLLECTOR                       LAB RCVD: 00/00/00      RECEIVED BY:
      SMPL PURP: 5-SPEC/OTHR   COMMENTS:                                           LAB COMPL: 00/00/00  LAB SUPERVISOR:
      SMPL PROG: V-VOC         OBSRVATNS:                                        SMPL PERIOD: 01/87          FUND CODE:

    ANALYSIS  RSLT -------STORET-------                                                           -------STANDARDS-------      TRIGGER
       ID      NO    NO    DESCRIPTION                                     UNITS        RESULT      DRINK WTR      RAW WTR       LEVEL

     0000001  001  32101  BROMODICHLOROMETHANE UG/L CG/MS                                1.000 <
     0000001  002  32102  CARBON TETRACHLORIDE UG/L CG/MS                                1.000 <      5.000
     0000001  003  32103  1,2-DICHLOROETHANE UG/L                                        1.000 <      5.000
     0000001  004  32104  BROMOFORM UG/L CG/MS                                           1.000 <
     0000001  005  32105  DIBROMOCHLOROMETHANE UG/L GC/MS                                1.000 <
     0000001  006  32106  CHLOROFORM UG/L GC/MS                                          1.000 <
     0000001  007  34010  TOLUENE UG/L                                                   1.000 <   1000.000
     0000001  008  34030  BENZENE UG/L                                                   1.000 <      5.000
     0000001  009  34301  CHLOROBENZENE UG/L                                             1.000 <    100.000
     0000001  010  34371  ETHYLBENZENE UG/L                                              1.000 <    700.000
     0000001  011  34423  METHYLENE CHLORIDE UG/L                                        1.000 <      5.000
     0000001  012  34475  TETRACHLOROETHYLENE UG/L GC/MS                                 1.000 <      5.000
     0000001  013  34496  1,1-DICHLOROETHANE UG/L GC/MS                                  1.000 <
     0000001  014  34501  1,1-DICHLOROETHYLENE UG/L GC/MS                                1.000 <      7.000
     0000001  015  34506  1,1,1-TRICHLOROETHANE UG/L GC/MS                               1.000 <    200.000
     0000001  016  34546  TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS                          1.000 <    100.000
     0000001  017  39180  TRICHLOROETHYLENE UG/L                                         1.000 <      5.000
     0000001  018  00010  WATER TEMPERATURE DEG C                                       16.500
     0000001  019  00059  FLOW (PUMPING) RATE GAL/MIN                                 1100.000
     0000001  020  00090  OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS                   84.000-
     0000001  021  00095  CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C                         540.000
     0000001  022  00400  PH PH UNITS                                                    7.400
     0000001  023  72004  FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN                     90.000
     0000001  024  90410                                                               315.000
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APPENDIX H

HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 0 0 6 9 1 - 0 1 - __ , Distance and Direction from the Wellhead ____

2. Nature of Business Battery Sales

3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None

4. DAPC Permit Number(s) and Description: None

5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None

6. ERU Incidents and Description: None

7. ERU 313 Reports and Description: ____

8. ESDA 302/303 Reports and Description: None

9. ESDA 311/312 Reports and Description: None

10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None

11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name	Address

12. Is the site sewered or non-sewered? sewered

If the site is not sewered, describe:

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occured?

( ) Yes. If yes, describe:

(X) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe:

(X) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe:

(X) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

( ) Yes. If yes, describe:

(X) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)
(X) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities (c).(continued)

( ) Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils

( ) Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act

( ) Reordering or other replenishment of inventory due to the amount of substance lost

( ) Temporary or more long-term monitoring of groundwater at or near the site

( ) Stop usage of an on-site or nearby water well because of offensive characteristics of the water

( ) Coping with fumes from subsurface storm drains or inside basements

( ) Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

( ) Yes. If yes, describe:

(X) No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

( ) Yes. If yes, describe:

(X) No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

( ) Yes. If yes, describe:

(X) No.

APPENDIX I

IEPA #: 00691

SWS

Illinois State Water Survey

Telephone (217) 333-4300
Ground-Water Section
2204 Griffith Drive
Champaign, Illinois 61820-7495

June 14, 1990

WELL PRODUCTION TEST
VILLAGE OF LAKE ZURICH, WELL NO. 10
LAKE COUNTY, ILLINOIS

By

Layne-Western Company, Inc.

Well Owner: Village of Lake Zurich
Consulting Engineers: Wight Consulting Engineers, Inc., Barrington, IL
Well Location: Approximately 2280 ft. W and 520 ft. S of the NE corner of Section 19, T.43N., R.10E.
Date Well Completed: June 1989
Date of Production Test: June 13-14, 1989
Length of Production Test: 35.8 hours
Aquifer: Sandstone

PUMPED WELL DATA

Well No.: 10
Depth: 1340 ft.
Drilling Contractor: Layne-Western Company, Inc., Aurora, IL
Drill Cuttings: to ISGS
Hole Record: 26-in. 0-273 ft., 25-in. 273-512 ft., 21-in. 512-1120 ft., 17-in. 1120-1340 ft.
Casing Record: 26-in. steel pipe from 0 to 273 ft., 22-in. steel pipe from 0 to 512 ft. (cemented in), and 18-in. steel slotted liner from 1037 to 1120 ft.
Ground Elevation at Well: 855 ft. (topographic map)
Measuring Point: Land surface
Nonpumping Water Level: 655 ft. below MP
Measuring Equipment: 920 ft. airline and 8- by 6-in. orifice
Test Pump and Power: Test pump, CAT engine
Date Water Sample Collected: June 14, 1989

Remarks: Located on Whitney Road in Henry J. Paulus Park

ENR A Division of the
Illinois Department of Energy and Natural Resources

Whi- & Pink Copies: Il Dept. of Public Health
Yellow Copy: Well Contractor
Golden Copy: Well Owner

0970850
IEPA #: 00691

Well Construction Report

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
OF WELL COMPLETION AND SENT TO
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

1. Type of Well
   a. Bored____ Hole Diam.____in. Depth____ft
      Buried Slab: Yes___ No___
   b. Driven____ Drive Pipe Diam.____in. Depth____ft
   c. Drilled X Finished in Drift____ In Rock X
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
cement	512	0

2. Well furnishes water for human consumption? Yes X No___
3. Date well drilled 1/2/89 → 6/30/89
4. Permanent pump installed? Yes X Date 10/5/89 No___
   Manufacturer Byron Jackson Type Sub
   Location________
   Capacity 1100 gpm. Depth of setting 1091 ft.
5. Well top sealed? Yes X No___ Type________
6. Pitless adapter installed? Yes___ No___
   Manufacturer Maass Mfg. Model No. 12" x 24"
   How attached to casing? welded
7. Well disinfected? Yes X No___
8. Pump and equipment disinfected Yes X No___

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosiure of this information is mandatory. This form has been approved by the Forms Management Center.

PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

IL482-0126

GEOLOGICAL AND WATER SURVEYS WELL RECORD

G.D. Buffington
9. Driller Layne-Western License No. 102-003241
10. Well Site Address (Lake Zurich, IL
11. Property Owner Village of Lake Zurich Well No. 10
12. Permit No. IEPA E890993 Date Issued________
13. Location: County Lake
    Sec. 19.4H
    Twp. 43N
    Rge. 10E

		X	

Show location in section plat

520'S + 2280'W NE/c

#10

14. Water from sand/limestone at depth 512 ft to 1340 ft

15. Casing and Liner Pipe

Diam.(in)	Kind and Weight	From (ft)	To (ft)
26	steel .375"	0	273
22	" "	0	512
18	" "	1037	1120

16. Screen: Diam.___in, Length___in, Slot Size___
17. Size hole below casing 17 in. 18. Ground Elev.______ ft msl.
19. Static level 655 ft below casing top which is 2 ft. above ground level. Pumping level 820 ft, pumping 1008 gpm for 24 hours

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
see attached log		

Continue on separate sheet if necessary.

Signed G D Buffington Date 12/20/90

0970850
IEPA #: 00691

DRILLERS LOG

Formation	From	To
Black top soil	0	1
Yellow clay	1	10
Brown clay	10	130
Brown clay with gravel streaks	130	140
Gray clay	140	170
Gray sandy clay	170	258
Fine sand	258	262
Coarse gravel with boulders	262	273
Hard white limestone	273	300
Grayish brown limestone - hard	300	340
Hard brown lime with shale seams	340	350
Hard gray lime	350	395
Hard gray lime with shale seams	395	425
Medium hard gray shale with brown lime layers	425	505
Hard brown limestone	505	695
Hard brown and gray limestone	695	720
Hard gray limestone	720	832
Hard to medium white sandstone	832	1070
Hard sandy limestone with shale layers	1070	1080
Red shale - medium hard	1080	1090
White hard sandstone	1090	1100
Sand and lime	1100	1165
Red rock and gray shale	1165	1170
Hard sandy lime	1170	1180
Hard white sandstone	1180	1200
Medium white sandstone	1200	1232
Soft white sandstone	1232	1250
Medium white sandstone	1250	1325
Hard white sandstone	1325	1330
Hard sandy lime with red and green shale layers	1330	1340

#9

WELL INFORMATION – ROCK WELLS

Fac#0970850
IEPA# 00636

Layne-Western Company, Inc.

WATER SUPPLY CONTRACTORS

721 West Illinois Avenue • Aurora, Illinois 60507 • Phone: 312/897-6941

Name of Job Village of Lake Zurich Date April 9, 1987

City Lake Zurich State Illinois

Well No.: 9 Drillers: Wendt and Shear

Well Location 50 ft. (S) and 875 ft. (W) of the NE corner of the NE ¼ of Section 29, Twp. 43 (N), Range 10 (E) Lake County.

Otherwise located as intersection of U.S. Route 12 and Deerpath Road.

Work Began: September 10, 1986 Work Completed: February 26, 1987

Casing Record:

Amount	Dia.	Wt. or Thickness	Material			
307	26"	0.375"	Steel	with welded	joints from +2	to 305
522	22"	0.375"	Steel	with welded	joints from +2	to 520
81	18"	0.375"	Steel	with welded	joints from 940	to 1021
				with	joints from	to

Hole Record:

26 inch from ground surface to 305
25 inch from 305 to 520
21 inch from 520 to 1020
17 inch from 1020 to 1365
inch from to bottom of hole

Cementing Record: 22" pipe cemented in place bottom to top.

Well Test Data: Static Level 680'; pumping level 886' after 24 hours pumping at 1085 g.p.m.

Length of test 24 hrs. See Well Test Data Sheet Dated February 16, 1987

Remarks:

LW-96

SEE OTHER SIDE

IEPA#: 00636

WELL LOG

Feet		Feet	Description
0	to	1	Black soil
1	to	12	Brown clay
12	to	25	Gray sand and silt
25	to	30	Medium sand and gravel
30	to	45	Gray clay with gravel
45	to	60	Brown clay with gravel
60	to	105	Gray clay with gravel seams
105	to	110	Sand and fine gravel
110	to	121	Gray clay with medium gravel
121	to	130	Gravel
130	to	150	Gray clay
150	to	167	Fine sand and gravel
167	to	212	Gray sandy clay
212	to	267	Gray hard pan
267	to	280	Brown fine sand
280	to	303	Gray hard pan
303	to	305	Broken limestone with flowing sand
305	to	338	Hard brown limestone
338	to	430	Hard brown limestone with shale layers
430	to	445	Medium gray shale
445	to	468	Hard brown limestone with gray shale layers
468	to	480	Hard gray shale
480	to	493	Hard dry green and gray shale
493	to	510	Hard gray shale
510	to	833	Hard brown limestone
833	to	985	White, medium to hard sandstone
985	to	990	Red medium shale
990	to	1020	Limestone and shale
1020	to	1158	Hard gray limestone
1158	to	1185	Hard sandy gray limestone

IEPA #: 00656

WELL LOG

Feet		Feet	Description
1185	to	1202	Hard sandy white and gray limestone
1202	to	1270	Gray hard sandstone
1270	to	1285	Gray medium sandstone
1285	to	1293	Hard gray sandstone
1293	to	1355	White and gray soft sandstone
1355	to	1359	Hard white sandstone
1359	to	1365	Hard limestone with green and red shale
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White Cc III. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ICPA #: 20600

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
      Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
      Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cement	Surface	576

2. Distance to Nearest:

Building	Ft.	Seepage Tile Field	
Cess Pool		Sewer (non Cast iron)	
Privy		Sewer (Cast iron)	
Septic Tank		Barnyard	
Leaching Pit		Manure Pile	

3. Well furnishes water for human consumption? Yes X No ____
4. Date well completed June 4, 1979
5. Permanent Pump Installed? Yes ____ Date ____ No X
   Manufacturer ~~Jackson~~ Byron Jackson Type Subm. Location LosAngeles
   Capacity 1000 gpm. Depth of Setting 930 Ft.
6. Well Top Sealed? Yes X No ____ Type Sealed Plate
7. Pitless Adapter Installed? Yes ____ No X
   Manufacturer ____ Model Number ____
   How attached to casing? ____
8. Well Disinfected? Yes X No ____
9. Pump and Equipment Disinfected? Yes ____ No X
10. Pressure Tank Size ____ gal. Type ____
    Location ____
11. Water Sample Submitted? Yes X No ____

REMARKS: *Drilled By Layne-Western Company, Inc.
Aurora, Illinois

Correction per KTS - 6/80

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Vil. of Lake Zurich Well No. 8
    Address ____
    Driller J. R. Carson* License No. 102-13
11. Permit No. 80133 Date Sept. 29, 1978
12. Water from Galesville (Formation) 13. County Lake
    at depth 1255 to 1368 ft.
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____

Sec. 16·4d
Twp. 43N
Rge. 10E
Elev. 868

SHOW LOCATION IN SECTION PLAT
~~420'S, 350'E [illegible]~~
2500'N, 2000'W,
SE¼

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
	See attached		
	Well Info. Sheet		

16. Size Hole below casing: 21½ in. (Municipal water supply)
17. Static level 690 ft. below casing top which is 2 ft. above ground level. Pumping level 865 ft. when pumping at 1059 gpm for 8 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
See attached Well Info. Sheet		
Files		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED C. F. Behrens DATE Oct. 8, 1979

#8

IDPH 4.065

211271
Ba

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IEPA #: 20260

Sample collected
5/21/79

WELL INFORMATION – ROCK WELLS

Layne-Western Company, Inc.

WATER SUPPLY CONTRACTORS

721 West Illinois Avenue • Aurora, Illinois 60507 • Phone: 312/897-6941

Name of Job Village of Lake Zurich Date June 20, 1979

City Lake Zurich State Illinois

Well No.: 8 Drillers: Wendt, Perrin, & Dole

Well Location 420 ft. (So) and 350 ft. (E.) of the NW corner of

the SE ¼ of Section 16, Twp. 43 (N), Range 10 (E) Lake County.

Otherwise located as Ensell Road - one block east of Oakwood St.

Work Began: September 29, 1978 Work Completed: June 4, 1979

Casing Record:

Amount	Dia.	Wt. or Thickness	Material					
36 Ft.	30 in.	0.500 in.	Steel	with welded	joints from	0 ft.	to	36 ft.
301 ft.	26 in.	0.500 in.	Steel	with welded	joints from	+2 ft.	to	299 ft.
578 ft.	22 in.	0.375 in.	Steel	with welded	joints from	+2 ft.	to	576 ft.
120 ft.	18 in.	0.375 in.	Steel	with welded	joints from	1047 ft.	to	1167 ft.

Hole Record:

30	inch from	ground surface	to	36 ft.	
26	inch from	36 ft.	to	299 ft.	
25	inch from	299 ft.	to	576 ft.	
21-1/4	inch from	576 ft.	to	1167 ft.	
17-1/4	inch from	1167 ft.	to	1373 ft.	bottom of hole

Cementing Record: 22" pipe cemented in place bottom to top
30" cemented in place.

Well Test Data: Static Level 690 ft. ; pumping level 860 after 8 hours pumping at 1059 g.p.m.

Length of test 8 hrs. See Well Test Data Sheet Dated May 21, 1979 (Test No. 3)

Remarks: Shot with 300 lbs. O.W.E. in 5 - 60 lbs. shots:
No. 1 - 1358' to 1348', No. 2 - 1338' to 1328', No. 3 - 1318' to 1308'
No. 4 - 1298' to 1288' and No. 5 - 1278' to 1268'.

LW-96

SEE OTHER SIDE

8

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0970850
IEPA #: 20260

WELL LOG

Feet		Feet	Description
0	to	2	Black topsoil
2	to	20	Brown clay
20	to	85	Gray clay
85	to	130	Gray clay with small gravel streaks
130	to	210	Gray clay with boulders
210	to	222	Hard fine sand and silt
222	to	262	Fine sand and gravel
262	to	270	Gray sandy silt
270	to	280	Medium sand and gravel
280	to	283	Fine sand and gravel
283	to	292	Hard gray lime
292	to	299	Medium gravel, silt and sand
299	to	312	Hard brown lime
312	to	556	Hard gray lime with shale streaks
556	to	858	Hard brown lime
858	to	864	Medium hard lime and sand.
864	to	898	White medium sandstone
898	to	918	Sandy gray lime with green shale streaks.
918	to	1055	Hard white sandstone with some medium shale
1055	to	1106	Hard sandy lime and red shale
1106	to	1183	Gray sandy lime with red shale streaks
1183	to	1224	Medium hard gray sandy lime
1224	to	1255	White sand with hard lime shells
1255	to	1280	Hard white sandstone
1280	to	1364	Medium white sandstone
1364	to	1368	Hard white sandstone
1368	to	1373	Hard green lime with red shale
	to		
	to		
	to		

#1

IEPA #: 20259

WELL PRODUCTION TEST

CITY OF LAKE ZURICH

LAKE COUNTY

Layne-Western Company

WELL NO. 7

Owner:	City of Lake Zurich
Location:	LKE 43N10E-21.5e 2100'S, 2550'E of NWcor
Date of Test:	Oct. 22, 1971
Length of Test:	8 hours
Aquifer:	Sandstone

WELL DATA

PUMPED WELL

Well No:	7
Depth:	1333'
Driller:	Layne-Western
Hole Record:	26" 0-267', 25" 267-525' 21" 525-1086', 17" 1086-1333'
Casing Record:	26" 0-267', 22" 0-525' (cemented)
Screen Record:	13" 1003-1086' (slotted)
Gravel Pack Record:	
Pump & Power:	Test Turbine, Gas Engine
Surface Elevation:	846' MSL
Measuring Point:	Top of casing
Measuring Equipment:	800' airline, 8x6" orifice
Water Sample:	By driller
Static Level:	570' below MP

Remarks: Well was not shot

0970850
IEPA #: 20259

0	2	2	Black top soil
[illegible]	8	10	Yellow clay
10	120	130	Brown clay
[illegible]	15	145	Brown gravel and clay
[illegible]	15	160	Gray clay
[illegible]	105	265	Gray sandy clay
[illegible]	135	400	Hard limestone
[illegible]	30	430	Hard limestone with streaks of shale
[illegible]	15	445	Hard limestone.
[illegible]	55	500	Green shale
[illegible]	140	640	Hard gray limestone
[illegible]	30	670	Medium gray limestone
[illegible]	148	818	Hard gray limestone
[illegible]	22	840	Soft sandstone
[illegible]	20	860	Hard sandstone
[illegible]	40	900	Medium sandstone
[illegible]	35	935	Soft white sandstone
[illegible]	5	940	Medium white sandstone
[illegible]	5	945	Hard white sandstone
[illegible]	50	995	Medium white sandstone
[illegible]	20	1015	Medium pink sandstone
[illegible]	[illegible]	1065	White. hard. sandstone
[illegible]	[illegible]	1085	Red shale
[illegible]	[illegible]	1130	Medium sandy limestone
[illegible]	5	1135	Hard. sandy limestone
[illegible]	25	1160	Medium sandy limestone
[illegible]	[illegible]	1185	Hard sandy limestone
[illegible]	5	1190	Hard sandstone
[illegible]	20	1210	Medium sandstone
[illegible]	20	1230	Hard sandstone
[illegible]	50	1280	Medium sandstone
[illegible]	[illegible]	1320	Soft sandstone
[illegible]	3	1323	Green shale

UNIVERSITY OF ILLINOIS-URBANA
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